Author index of Volume 127

Arunakirinathar, K. and Reddy, B.D. Further results for enhanced strain methods with isoparametric elements	127-143
Borja, R.I. and Wren, J.R. Micromechanics of granular media. Part I: Generation	
of overall constitutive equation for assemblies of circular disks	13- 36
Braess, D., Klaas, O., Niekamp, R., Stein, E. and Wobschal, F. Error indicators	215 256
for mixed finite elements in 2-dimensional linear elasticity	345–356
Cannarozzi, M. and Mancuso, M. Formulation and analysis of variational methods	
for time integration of linear elastodynamics	241–257
Dinu, A. see Dragos, L.	357-370
Dragos, L. and Dinu, A. A direct boundary integral method for the	
three-dimensional lifting flow	357-370
Feng, Y.T., Owen, D.R.J. and Períc, D. A block conjugate gradient method applied	
to linear systems with multiple right-hand angles	203-215
Frangos, C. see Yavin, Y.	227-240
Freese, C.E. see Johnson, A.R.	163-180
He, X.Q. see Jirousek, J.	315-344
Hughes, T.J.R. Multiscale phenomena: Green's functions, the Dirichlet-to-Neumann	
formulation, subgrid scale models, bubbles and the origins of stabilized methods	387-401
Jirousek, J., Wróblewski, A., Qin, Q.H. and He, X.Q. A family of quadrilateral	
hybrid-Trefftz p-elements for thick plate analysis	315-344
Johnson, A.R., Quigley, C.J. and Freese, C.E. A viscohyperelastic finite element	
model for rubber	163–180
Khan, L.A. and Liu, P.LF. An operator splitting algorithm for coupled	
one-dimensional advection-diffusion-reaction equations	181-201
Klaas, O. see Braess, D.	345-356
Kleeman, P.W. see Sloan, S.W.	293-314
Kondo, N. and Yamada, S. Third-order upwind finite element computation of the	
incompressible Navier-Stokes equations. Part I. Computation of flow around	
rectangular cylinders	87- 97
Kondo, N. and Yamada, S. Third-order upwind finite element computation of the	
incompressible Navier-Stokes equations. Part II. Aerodynamic characteristics of a	
rectangular cylinder with an angle of attack	99–113
Lee, H.P. Dynamic stability of spinning pre-twisted beams subject to axial pulsating	
loads	115–126

Liew, K.M. and Lim, C.W. A Ritz vibration analysis of doubly-curved rectangular	
shallow shells using a refined first-order theory	145–162
Lim, C.W. see Liew, K.M.	145–162
Litvin, F.L. and Lu, J. Computerized design and generation of double circular-arc	
helical gears with low transmission errors	57- 86
Liu, P.LF. see Khan, L.A.	181-201
Lu, J. see Litvin, F.L.	57- 86
Lucchesi, M., Padovani, C. and Pasquinelli, G. On the numerical solution of	
equilibrium problems for elastic solids with bounded tensile strength	37– 56
Mancuso, M. see Cannarozzi, M.	241-257
Marcum, D.L. and Weatherill, N.P. A procedure for efficient generation of solution	
adapted unstructured grids	259–268
Niekamp, R. see Braess, D.	345-356
Owen, D.R.J. see Feng, Y.T.	203-215
Padovani, C. see Lucchesi, M.	37- 56
Pankiewicz, E. On limit analysis of discs by a rigid finite element method	1- 12
Pasquinelli, G. see Lucchesi, M.	37- 56
Períc, D. see Feng, Y.T.	203-215
Qin, Q.H. see Jirousek, J.	315-344
Quigley, C.J. see Johnson, A.R.	163-180
Rachowicz, W. An overlapping domain decomposition preconditioner for an	
anisotropic h-adaptive finite element method	269-292
Reddy, B.D. see Arunakirinathar, K.	127-143
Sloan, S.W. and Kleeman, P.W. Upper bound limit analysis using discontinuous	
velocity fields	293-314
Stein, E. see Braess, D.	345-356
Tzaferopoulos, M.Ap. On the numerical modelling of convex particle assemblies	
with friction	371–386
Weatherill, N.P. see Marcum, D.L.	259-268
Wobschal, F. see Braess, D.	345-356
Wren, J.R. see Borja, R.I.	13- 36
Wróblewski, A. see Jirousek, J.	315-344
Yamada, S. see Kondo, N.	87- 97
Yamada, S. see Kondo, N.	99-113
Yavin, Y. and Frangos, C. Open loop strategies for the control of a disk rolling on a	
horizontal plane	227-240
Zhang, YG. An iteration algorithm for kinematic shakedown analysis	217-226
•	

Subject index of Volume 127

Boundary element methods A direct boundary integral method for the three-dimensional lifting flow, L. Dragoş and A. Dinu	357-370
Boundary layers A family of quadrilateral hybrid-Trefftz p-elements for thick plate analysis, J. Jirousek, A. Wróblewski, Q.H. Qin and X.Q. He	315–344
Calculus of variations A family of quadrilateral hybrid-Trefftz p-elements for thick plate analysis, J. Jirousek, A. Wróblewski, Q.H. Qin and X.Q. He	315-344
Collocation method A direct boundary integral method for the three-dimensional lifting flow, L. Dragoş and A. Dinu	357–370
Control theory Open loop strategies for the control of a disk rolling on a horizontal plane, Y. Yavin and C. Frangos	227–240
Coupled problems An operator splitting algorithm for coupled one-dimensional advection-diffusion-reaction equations, L.A. Khan and P.LF. Liu	181-201
Dynamics Dynamics stability of spinning pre-twisted beams subject to axial pulsating loads, H.P. Lee A Ritz vibration analysis of doubly-curved rectangular shallow shells using a refined first-order theory, K.M. Liew and C.W. Lim	115–126 145–162
Open loop strategies for the control of a disk rolling on a horizontal plane, Y. Yavin and C. Frangos Formulation and analysis of variational methods for time integration of linear elastodynamics, M. Cannarozzi and M. Mancuso	227–240 241–257
 Elasticity Further results for enhanced strain methods with isoparametric elements, K. Arunakirinathar and B.D. Reddy A Ritz vibration analysis of doubly-curved rectangular shallow shells using a refined first-order theory, K.M. Liew and C.W. Lim A viscohyperelastic finite element model for rubber, A.R. Johnson, C.J. Quigley 	127–143 145–162
and C.E. Freese	163-180

Finite element and matrix methods Third-order upwind finite element computation of the incompressible Navier-Stokes	
equations. Part I. Computation of flow around rectangular cylinders, N. Kondo	
and S. Yamada	87- 97
Third-order upwind finite element computation of the incompressible Navier-Stokes equations. Part II. Aerodynamic characteristics of a rectangular cylinder with an	
angle of attack, N. Kondo and S. Yamada	99-113
Further results for enhanced strain methods with isoparametric elements,	
K. Arunakirinathar and B.D. Reddy	127–143
A viscohyperelastic finite element model for rubber, A.R. Johnson, C.J. Quigley and C.E. Freese	163-180
Formulation and analysis of variational methods for time integration of linear	
elastodynamics, M. Cannarozzi and M. Mancuso	241-257
An overlapping domain decomposition preconditioner for an anisotropic h -adaptive finite element method, W. Rachowicz	269-292
A family of quadrilateral hybrid-Trefftz <i>p</i> -elements for thick plate analysis,	203-232
J. Jirousek, A. Wróblewski, Q.H. Qin and X.Q. He	315-344
Error indicators for mixed finite elements in 2-dimensional linear elasticity,	245 256
D. Braess, O. Klaas, R. Niekamp, E. Stein and F. Wobschal Multiscale phenomena: Green's functions, the Dirichlet-to-Neumann formulation,	345–356
subgrid scale models, bubbles and the origins of stabilized methods,	
T.J.R. Hughes	387-401
Fluid mechanics Third-order upwind finite element computation of the incompressible Navier-Stokes	
equations. Part I. Computation of flow around rectangular cylinders, N. Kondo	
and S. Yamada	87- 97
Third-order upwind finite element computation of the incompressible Navier-Stokes	
equations. Part II. Aerodynamic characteristics of a rectangular cylinder with an angle of attack, N. Kondo and S. Yamada	99-113
A direct boundary integral method for the three-dimensional lifting flow, L. Dragoş	<i>,,</i> 115
and A. Dinu	357-370
Multiscale phenomena: Green's functions, the Dirichlet-to-Neumann formulation,	
subgrid scale models, bubbles and the origins of stabilized methods, T.J.R. Hughes	387-401
	007 101
General Rayleigh-Ritz and Galerkin techniques	
A Ritz vibration analysis of doubly-curved rectangular shallow shells using a refined first-order theory, K.M. Liew and C.W. Lim	145-162
Multiscale phenomena: Green's functions, the Dirichlet-to-Neumann formulation,	143-102
subgrid scale models, bubbles and the origins of stabilized methods,	
T.J.R. Hughes	387–401
Incompressible and near incompressible media	
Third-order upwind finite element computation of the incompressible Navier-Stokes	
equations. Part I. Computation of flow around rectangular cylinders, N. Kondo	
and S. Yamada Third order unwind finite element computation of the incompressible Navier Stokes	87- 97
Third-order upwind finite element computation of the incompressible Navier-Stokes equations. Part II. Aerodynamic characteristics of a rectangular cylinder with an	
angle of attack, N. Kondo and S. Yamada	99-113
A direct boundary integral method for the three-dimensional lifting flow, L. Dragoş	257 270
and A. Dinu	357-370

Kinematics	
Computerized design and generation of double circular-arc helical gears with low transmission errors, F.L. Litvin and J. Lu	57- 86
Limit solutions An iteration algorithm for kinematic shakedown analysis, YG. Zhang	217-226
Upper bound limit analysis using discontinuous velocity fields, S.W. Sloan and P.W. Kleeman	293-314
Multiple scaling	
Multiscale phenomena: Green's functions, the Dirichlet-to-Neumann formulation, subgrid scale models, bubbles and the origins of stabilized methods, T.J.R. Hughes	387-401
Nonlinear mechanics	
Micromechanics of granular media. Part I: Generation of overall constitutive	
equation for assemblies of circular disks, R.I. Borja and J.R. Wren	13- 36
Numerical solution procedures On limit analysis of disce by a risid finite element method. E. Bankiswicz	1 12
On limit analysis of discs by a rigid finite element method, E. Pankiewicz Micromechanics of granular media. Part I: Generation of overall constitutive	1- 12
equation for assemblies of circular disks, R.I. Borja and J.R. Wren	13- 36
Third-order upwind finite element computation of the incompressible Navier-Stokes	
equations. Part I. Computation of flow around rectangular cylinders, N. Kondo	
and S. Yamada	87– 97
Third-order upwind finite element computation of the incompressible Navier-Stokes equations. Part II. Aerodynamic characteristics of a rectangular cylinder with an	
angle of attack, N. Kondo and S. Yamada	99-113
Further results for enhanced strain methods with isoparametric elements,	
K. Arunakirinathar and B.D. Reddy	127-143
An operator splitting algorithm for coupled one-dimensional	101 201
advection-diffusion-reaction equations, L.A. Khan and P.LF. Liu	181–201
A block conjugate gradient method applied to linear systems with multiple right-hand angles, Y.T. Feng, D.R.J. Owen and D. Períc	203-215
An iteration algorithm for kinematic shakedown analysis, YG. Zhang	217-226
Open loop strategies for the control of a disk rolling on a horizontal plane, Y. Yavin	
and C. Frangos	227-240
Formulation and analysis of variational methods for time integration of linear	044 057
elastodynamics, M. Cannarozzi and M. Mancuso	241–257
An overlapping domain decomposition preconditioner for an anisotropic h -adaptive finite element method, W. Rachowicz	269-292
Error indicators for mixed finite elements in 2-dimensional linear elasticity,	20) 2)2
D. Braess, O. Klaas, R. Niekamp, E. Stein and F. Wobschal	345-356
On the numerical modelling of convex particle assemblies with friction,	
M.A. Tzaferopoulos	371–386
Multiscale phenomena: Green's functions, the Dirichlet-to-Neumann formulation, subgrid scale models, bubbles and the origins of stabilized methods,	
T.J.R. Hughes	387-401
Optimization	
Open loop strategies for the control of a disk rolling on a horizontal plane, Y. Yavin and C. Frangos	227-240

On the numerical modelling of convex particle assemblies with friction,	274 204
M.A. Tzaferopoulos	371–386
Plasticity	
Micromechanics of granular media. Part I: Generation of overall constitutive	40.00
equation for assemblies of circular disks, R.I. Borja and J.R. Wren	13- 36
An iteration algorithm for kinematic shakedown analysis, YG. Zhang Upper bound limit analysis using discontinuous velocity fields, S.W. Sloan and P.W. Kleeman	217–226
Problems in physics	
Multiscale phenomena: Green's functions, the Dirichlet-to-Neumann formulation,	
subgrid scale models, bubbles and the origins of stabilized methods,	
T.J.R. Hughes	387–401
Shells and plates	
A Ritz vibration analysis of doubly-curved rectangular shallow shells using a refined	
first-order theory, K.M. Liew and C.W. Lim	145-162
A family of quadrilateral hybrid-Trefftz p-elements for thick plate analysis,	
J. Jirousek, A. Wróblewski, Q.H. Qin and X.Q. He	315–344
Solution of integral equations (singularity method)	
A direct boundary integral method for the three-dimensional lifting flow, L. Dragoş	
and A. Dinu	357–370
Solutions of ordinary and partial differential equations	
An operator splitting algorithm for coupled one-dimensional	
advection-diffusion-reaction equations, L.A. Khan and P.LF. Liu	181-201
Formulation and analysis of variational methods for time integration of linear	
elastodynamics, M. Cannarozzi and M. Mancuso	241-257
Multiscale phenomena: Green's functions, the Dirichlet-to-Neumann formulation,	
subgrid scale models, bubbles and the origins of stabilized methods,	
T.J.R. Hughes	387–401
Stability in structural mechanics	
On the numerical solution of equilibrium problems for elastic solids with bounded	27 50
tensile strength, M. Lucchesi, C. Padovani and G. Pasquinelli	37– 56
Dynamic stability of spinning pre-twisted beams subject to axial pulsating loads, H.P. Lee	115-126
Structural mechanics	
On the numerical solution of equilibrium problems for elastic solids with bounded	
tensile strength, M. Lucchesi, C. Padovani and G. Pasquinelli	37- 56
A Ritz vibration analysis of doubly-curved rectangular shallow shells using a refined	
first-order theory, K.M. Liew and C.W. Lim	145-162
Upper bound limit analysis using discontinuous velocity fields, S.W. Sloan and	
P.W. Kleeman	293-314
On the numerical modelling of convex particle assemblies with friction,	
M.A. Tzaferopoulos	371-386

Systems of linear and nonlinear simultaneous equations	
A block conjugate gradient method applied to linear systems with multiple right-	202 245
hand angles, Y.T. Feng, D.R.J. Owen and D. Períc	203–215
A procedure for efficient generation of solution adapted unstructured grids, D.L. Marcum and N.P. Weatherill	259–268
Transport phenomena	
Third-order upwind finite element computation of the incompressible Navier-Stokes equations. Part I. Computation of flow around rectangular cylinders, N. Kondo and S. Yamada	87– 97
Third-order upwind finite element computation of the incompressible Navier-Stokes equations. Part II. Aerodynamic characteristics of a rectangular cylinder with an	
angle of attack, N. Kondo and S. Yamada Multiscale phenomena: Green's functions, the Dirichlet-to-Neumann formulation, subgrid scale models, bubbles and the origins of stabilized methods,	99–113
T.J.R. Hughes	387-401
Unstructured grids	
A procedure for efficient generation of solution adapted unstructured grids,	
D.L. Marcum and N.P. Weatherill	259–268
Viscoelastic and viscoplastic media	
A viscohyperelastic finite element model for rubber, A.R. Johnson, C.J. Quigley and C.E. Freese	163-180
Viscous flow	
Third-order upwind finite element computation of the incompressible Navier-Stokes equations. Part I. Computation of flow around rectangular cylinders, N. Kondo	
and S. Yamada	87- 97
Third-order upwind finite element computation of the incompressible Navier-Stokes	
equations. Part II. Aerodynamic characteristics of a rectangular cylinder with an	00_113

